Translation

Rec'd PCT/PTO 01 OCT 2004 PATENT COOPERATION TREAT



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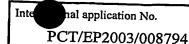
INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

510,311

A 11						
Applicant's or agent's file reference 2002P20142WO	FOR FURTHER AC	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/4				
International application No.	International filing date (day/month/year) Prior		Priority date (day/month/year)			
PCT/EP2003/008794	07 August 2003	(07.08.2003)	12 September 2002 (12.09.2002)			
International Patent Classification (IPC) or n G06F 11/16	ational classification and	I IPC				
Applicant	TEL CEL YOU A TENTON					
	IEMENS AKTIEN	GESELLSCHA	AFT			
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of	5 sheets,	including this cove	er sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a tot	al ofsl	neets.				
3. This report contains indications relat	ing to the following item	ıs:				
I Basis of the report	I 🔀 Basis of the report					
II Priority	II Priority					
III Non-establishment o	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of inve	ntion					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
VI Certain documents ci	VI Certain documents cited					
VII Certain defects in the	VII Certain defects in the international application					
VIII Certain observations on the international application						
Date of submission of the demand]	Date of completion of this report				
21 November 2003 (21.11.2003)		11 June 2004 (11.06.2004)				
Name and mailing address of the IPEA/EP		Authorized officer				
Facsimile No.		Telephone No.				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT



I. Basis of the report	1 C1/EF2003/008/94
1. With regard to the elements of the international application:*	
the international application as originally filed	
the description:	
nages	
pages 1-16 pages	, as originally filed
pages, filed with the letter	, filed with the demand
the claims:	
pages1-8	
pages 1-8 pages, as amended (to	, as originally filed
pages	, filed with the demand
pages, filed with the letter	of
the drawings:	
pages	an anialustis mi
pages	, as originally filed
pages, filed with the letter	of
the sequence listing part of the description:	
pagespages	
pages	, as originally filed
pages, filed with the letter of	of
These elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (und the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international prelimi or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the interpreliminary examination was carried out on the basis of the sequence listing:	er Rule 23.1(b)). inary examination (under Rule 55.2 and/
contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does international application as filed has been furnished. The statement that the information recorded in computer readable form is ident been furnished.	
The amendments have resulted in the cancellation of: the description, pages the claims, Nos the drawings, sheets/fig	
This report has been established as if (some of) the amendments had not been made beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
Replacement sheets which have been furnished to the receiving Office in response to an invitation this report as "originally filed" and are not annexed to this report since they do and 70.17).	not contain amenaments (Rule 70.16
Any replacement sheet containing such amendments must be referred to under item 1 and an	nnexed to this report.

In	ional	application No.	
PCI	/EP	03/08794	

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-8	YES
		Claims		NO NO
	Inventive step (IS)	Claims	1-8	YES
		Claims		NO NO
	Industrial applicability (IA)	Claims	1-8	YES
		Claims		NO

- 2. Citations and explanations
 - 1. Reference is made to the following document:

D1: EP-A-0 104 490 (KRUPP GMBH) 4 April 1984 (1984-04-04)

- 2. PCT Article 33
- a. Claim 1

Field: Event synchronisation in error-tolerant systems with redundant processor devices.

Prior art: D1, which is considered the closest prior art, discloses a method for synchronising external events which are supplied to and influence a module (the method in general: page 3, line 24 - page 6, line 2), the module being provided for the parallel processing of a first number of instructions (each redundant system processes a certain number of instructions in parallel) according to which the external events are intermediately stored (implicit from page 4, line 29 - page 5, line 11), the stored external events being retrieved in a separate operating mode of the module for processing via at

least one execution unit of the module (page 5, lines 14-21), the module entering into this operating mode after a set second number of instructions has been processed (page 5, lines 1-14, page 9, lines 5-13), and a counter detecting the number of instructions carried out by the execution unit since the last time the separate operating mode was exited (implicit from page 9, lines 8-13).

Characterising features: D1 does not disclose that the module is shifted into the individual command execution mode as a function of the counter content.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

Technical effect: The problem addressed by the present invention can therefore be considered that of being able to present external events at identical locations in the command execution of redundant CPUs even when the redundant CPU cannot be securely stopped at an identical location in the sequence of commands.

Inventive step: The solution proposed to this problem is neither disclosed nor suggested by the available prior art. An inventive step (PCT Article 33(3)) can therefore be acknowledged.

b. Claims 6 and 7:

Independent claims 6 and 8 contain all the features of claim 1. They therefore likewise meet the novelty and inventive step requirements of PCT Article 33(2) and (3).

c. Other claims:

Claims 2-5 and 8 are dependent on claim 1 or claim 7 and therefore likewise meet the PCT novelty and inventive step requirements.

3. Comments:

The present application contains more than one independent claim in the same category, i.e. three independent device claims. This contravenes the requirements of PCT Article 6 according to which claims must be clear and <u>concise</u>.